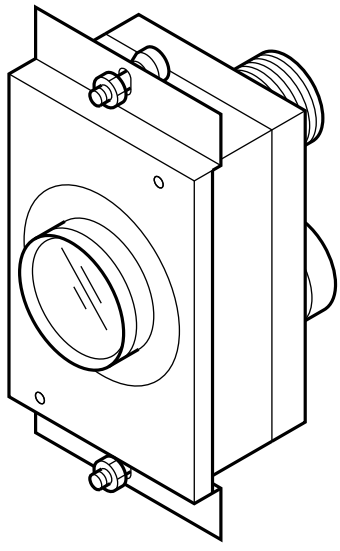
SERVICE MANUAL

JumboTron

MODEL	DEST.
JTA-LS200	World



ABC SENSOR UNIT

SONY

⚠ WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injuly, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY A⚠MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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SONY

3-864-752-**11 (1)**

JumboTron Image Control System

Operation Guide
Before operting the unit, please read this guide thoroughly and retain it for future reference.

JumboTron

JTC-P200 Image Control Unit
JTA-LS200 ABC Sensor Unit

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SECTION 1
OPERATING INSTRUCTIONS

This section is extracted from operation guide.

This section is extracted from operation manual of the JTC-C200.

Sony Corporation Printed in Japan

Owner's Record

The model and serial numbers are located on the rear. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

For the customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For JTC-P200

Attention – when the product is installed in a rack:

- **Elevated operating ambient temperature**
  If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient.
  Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature of 0 to 45°C (Tmra).
- **Reduced air flow**
  Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- **Mechanical loading**
  Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- **Circuit overloading**
  Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on overcurrent protection and supply wiring.
  Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- **Reliable earthing**
  Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

Overview

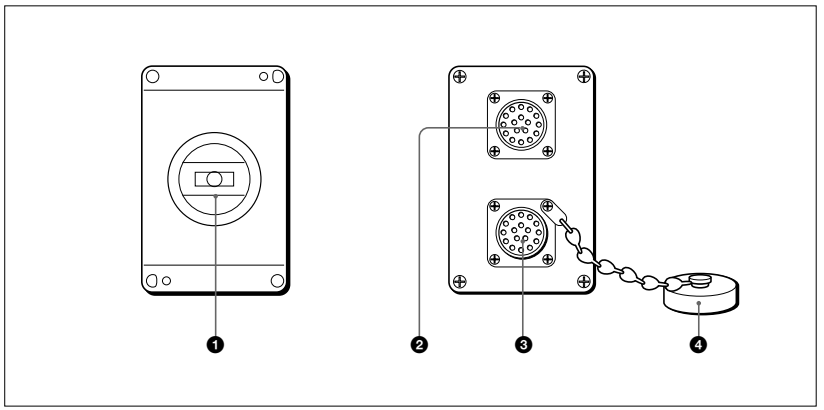
JTC-P200 ICU

The ICU (Image Control Unit) is the main unit for controlling the images on the JumboTron screen. Connect the image sources to the ICU, and control with the JTC-C200 ICU controller and JME-SA200 screen alignment controller.
For details, refer to the Operation Manual of the JTC -C200 ICU controller.

JTA-LS200 ABC Sensor Unit

The ABC (Automatic Brightness Control) sensor unit is used for the automatic adjustment of the brightness of the screen. Connect the ABC sensor unit to the JTC-P200 ICU to detect the ambient light.
For details, refer to the Operation Manual of the JTC-C200 ICU controller.

JTA-LS200 ABC sensor unit



❶ ABC (Automatic Brightness Control) sensor
Senses the ambient light.

❷ IN connector (Round type, 17-pin)
When two or more ABC sensor units are used in the system, connect the first sensor unit to the CONTROL 1/LS connector of the ICU. Connect the second sensor unit and others to the OUT connectors of other sensor units.

❸ OUT connector (Round type, 17-pin)
Connect to the IN connector of another ABC sensor unit.

❹ Connector cap
Put the cap on the OUT connector when it is not used.

Specifications

JTA-LS200 ABC sensor unit

General

Power requirements	12 V DC (supplied from the JTC-P200)
Power consumption	1.0 W (max.)
Dimensions	80 × 125 × 56.5 mm (w/h/d) (3 1/4 × 5 × 2 1/4 inches)
Mass	Approx. 0.6 kg (1 lb 5 oz)
Operating conditions	Temperature: 0°C to 45°C (32°F to 113°F) Humidity: 30% to 70% (no condensation)

Input/output

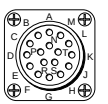
Input/output	17-pin, Round type (2)

Supplied accessories

Mounting bracket (1 set)
Operation Guide (1)

Pin assignment

OUT and IN connectors (17-pin, round type)

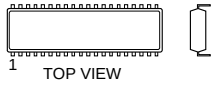


Pin No.	Signal	Pin No.	Signal
A	FRAME GROUND	K	RTS –
B	TXD +	L	RXD –
C	RTS +	M	CTS –
D	RXD +	N	DSR –
E	CTS +	P	DTR –
F	DSR +	R	12 V DC
G	DTR +	S	S1-3
H	SIGNAL GROUND	T	S1-2
J	TXD –		

Design and specifications are subject to change without notice.

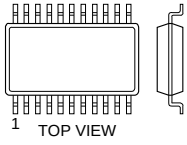
SECTION 2
SEMICONDUCTORS

DS26C31TM
DS26C32ATM



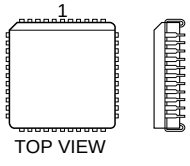
16pin DIP

DS26C31TMX
DS26C32ATMX



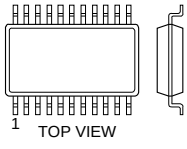
16pin SOP

HD6475328CP10-LS200



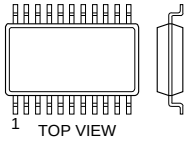
84pin QFJ

MAX706CSA



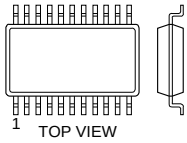
8pin SOP

SN74HC04ANS
SN74HC20ANS



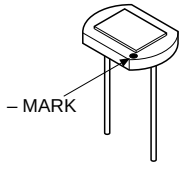
14pin SOP

SN74HC540ANS
TC74HC540AF

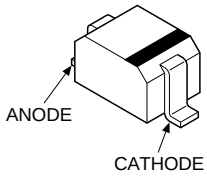


20pin SOP

S1133-02



1SS355
1SS355TE-17



SECTION 3
EXPLODED VIEWS

NOTE:

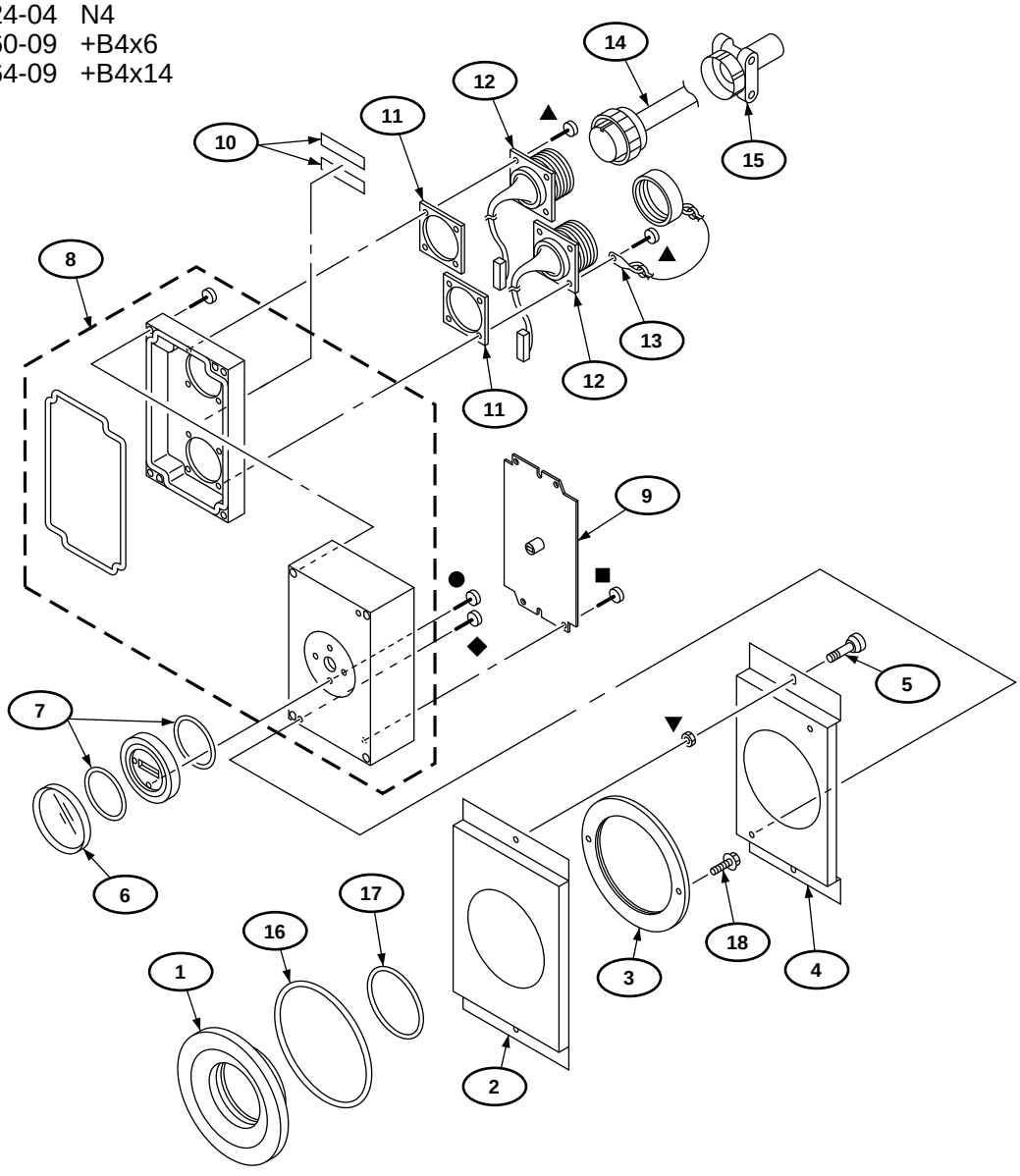
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

【使用上の注意】

- * 印の部品は常時在庫しておりません。
  受注して供給できるまで日数を要します。
- 分解図中の構成部品で，図面番号のない部品は供給しません。
- 組立部品の構成部品は備考欄に図面番号で示します。

3-1. CHASSIS

● : 7-682-948-09 +PSW3x8
▲ : 7-682-949-09 +PSW3x10
▼ : 7-684-024-04 N4
■ : 7-682-560-09 +B4x6
◆ : 7-682-564-09 +B4x14



Rf.No.	Part No.	Description	Remark
1	*4-066-547-01	FLANGE	
2	*4-066-759-01	PLATE (A)	
3	*4-066-546-01	NUT	
4	*4-066-760-01	PLATE (B)	
5	4-067-053-01	KNOB, KNURL	
6	3-181-857-01	FILTER, U V	
7	3-181-853-01	RING (S34), O	
8	*4-066-548-01	BOX, ALUMINUM	
9	*A-1394-919-A	LSM BOARD, COMPLETE	
10	*4-067-052-01	LABEL, CONNECTOR NAME	
11	*4-066-637-01	GASKET	
12	*1-785-245-11	CONNECTOR, ROUND TYPE	
13	*4-066-638-01	CAP, DUST	
14	*1-785-244-11	CONNECTOR, ROUND TYPE	
15	*4-066-639-01	CLAMP, CABLE	
16	4-067-508-01	O RING (L)	
17	4-067-509-01	O RING (R)	
18	4-052-747-11	BOLT, +HX HEAD WITH WASHER	

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

The components identified ⚠ marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

【使用上の注意】

⚠印の部品は，安全性を維持するために，重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

お願い
図面番号で部品を指定するときは，基板名又はブロックを併せて指定してください。

- 基板どうしでリファレンスNo.が重複している場合がありますので発注の際には必ず基板名を明記して下さい。
- 抵抗の単位Ωは省略してあります。
  酸金被膜：酸化金属被膜抵抗。
  金属被膜：金属被膜抵抗。
  参考欄のFは不燃性抵抗を示します。
- *印の部品は常時在庫しておりません。
- ここに記載されている部品は，補修部品であるため，回路図及びセットについている部品と異なる場合があります。

Rf.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1394-919-A	LSM BOARD, COMPLETE			
		**********			
	1-540-252-11	SOCKET, IC (PLCC)			
	* 4-066-545-01	SPACER			
		<CAPACITOR>			
C1	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C3	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C4	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C5	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C6	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C7	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C8	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C9	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C10	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C11	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C12	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C13	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C14	1-126-391-11	ELECT CHIP 47MF	20%	6.3V	
C15	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C16	1-126-391-11	ELECT CHIP 47MF	20%	6.3V	
C17	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
		<CONNECTOR>			
CN1	* 1-506-638-11	CONNECTOR, PS 18P			
CN2	* 1-506-638-11	CONNECTOR, PS 18P			

Rf.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D1	8-719-988-62	DIODE 1SS355	
D2	8-719-988-62	DIODE 1SS355	
D3	8-719-988-62	DIODE 1SS355	
D4	8-719-042-64	PHOTO DIODE S1133-02	
D5	8-719-988-62	DIODE 1SS355	
D6	8-719-988-62	DIODE 1SS355	
D7	8-719-988-62	DIODE 1SS355	
D8	8-719-988-62	DIODE 1SS355	
D9	8-719-988-62	DIODE 1SS355	
D10	8-719-988-62	DIODE 1SS355	
		<DC-DC CONVERTER>	
DC1	1-418-100-11	CONVERTER UNIT, DC-DC	
		<FUSE>	
F1	⚠1-532-779-51	FUSE, MICRO (SECONDARY) 2A/125V	
		<FILTER>	
FL1	1-233-556-21	FERRITE 0UH	
FL2	1-233-556-21	FERRITE 0UH	
FL3	1-233-556-21	FERRITE 0UH	
FL4	1-233-556-21	FERRITE 0UH	
		<IC>	
IC1	8-759-323-74	IC HD6475328CP10	
IC2	8-759-926-76	IC SN74HC540ANS	

Rf.NO.	PART NO.	DESCRIPTION			REMARK
IC4	8-759-479-15	IC PC16552DV			
IC5	8-759-271-77	IC DS26C31TM			
IC6	8-759-271-78	IC DS26C32ATM			
IC7	8-759-447-40	IC MAX706CSA			
IC8	8-759-560-69	IC MC33204D			
IC9	8-759-271-77	IC DS26C31TM			
IC10	8-759-271-78	IC DS26C32ATM			
IC11	8-759-032-11	IC MC74HC04AF			
	<COIL>				
L1	1-410-206-51	INDUCTOR CHIP	15UH		
L2	1-410-206-51	INDUCTOR CHIP	15UH		
	<RESISTOR>				
R1	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3	1-216-097-91	RES,CHIP	100K	5%	1/10W
R4	1-216-097-91	RES,CHIP	100K	5%	1/10W
R5	1-216-025-91	RES,CHIP	100	5%	1/10W
R6	1-216-073-00	RES,CHIP	10K	5%	1/10W
R7	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8	1-216-097-91	RES,CHIP	100K	5%	1/10W
R9	1-216-097-91	RES,CHIP	100K	5%	1/10W
R10	1-216-097-91	RES,CHIP	100K	5%	1/10W
R11	1-216-025-91	RES,CHIP	100	5%	1/10W
R12	1-216-073-00	RES,CHIP	10K	5%	1/10W
R13	1-216-073-00	RES,CHIP	10K	5%	1/10W
R14	1-216-097-91	RES,CHIP	100K	5%	1/10W
R15	1-216-097-91	RES,CHIP	100K	5%	1/10W
R16	1-216-097-91	RES,CHIP	100K	5%	1/10W
R17	1-216-073-00	RES,CHIP	10K	5%	1/10W
R18	1-216-073-00	RES,CHIP	10K	5%	1/10W
R19	1-216-025-91	RES,CHIP	100	5%	1/10W
R20	1-216-025-91	RES,CHIP	100	5%	1/10W
R21	1-216-073-00	RES,CHIP	10K	5%	1/10W
R22	1-216-073-00	RES,CHIP	10K	5%	1/10W
R23	1-216-097-91	RES,CHIP	100K	5%	1/10W
R24	1-216-097-91	RES,CHIP	100K	5%	1/10W
R25	1-216-097-91	RES,CHIP	100K	5%	1/10W
R26	1-216-025-91	RES,CHIP	100	5%	1/10W
R27	1-216-073-00	RES,CHIP	10K	5%	1/10W
R28	1-216-073-00	RES,CHIP	10K	5%	1/10W
R29	1-216-097-91	RES,CHIP	100K	5%	1/10W
R30	1-216-097-91	RES,CHIP	100K	5%	1/10W
R31	1-216-097-91	RES,CHIP	100K	5%	1/10W
R32	1-216-073-00	RES,CHIP	10K	5%	1/10W
R33	1-216-073-00	RES,CHIP	10K	5%	1/10W
R34	1-216-025-91	RES,CHIP	100	5%	1/10W
R35	1-216-025-91	RES,CHIP	100	5%	1/10W
R36	1-216-097-91	RES,CHIP	100K	5%	1/10W
R37	1-216-097-91	RES,CHIP	100K	5%	1/10W
R38	1-216-056-00	RES,CHIP	2K	5%	1/10W
R39	1-216-056-00	RES,CHIP	2K	5%	1/10W
R40	1-216-097-91	RES,CHIP	100K	5%	1/10W
R41	1-216-097-91	RES,CHIP	100K	5%	1/10W
R43	1-216-097-91	RES,CHIP	100K	5%	1/10W
R44	1-216-097-91	RES,CHIP	100K	5%	1/10W
R45	1-216-097-91	RES,CHIP	100K	5%	1/10W
R46	1-216-097-91	RES,CHIP	100K	5%	1/10W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R47	1-216-097-91	RES,CHIP	100K	5%	1/10W
R48	1-216-097-91	RES,CHIP	100K	5%	1/10W
R49	1-216-097-91	RES,CHIP	100K	5%	1/10W
R50	1-216-097-91	RES,CHIP	100K	5%	1/10W
R51	1-216-097-91	RES,CHIP	100K	5%	1/10W
R52	1-216-097-91	RES,CHIP	100K	5%	1/10W
R53	1-216-097-91	RES,CHIP	100K	5%	1/10W
R54	1-216-097-91	RES,CHIP	100K	5%	1/10W
R55	1-216-097-91	RES,CHIP	100K	5%	1/10W
R56	1-216-097-91	RES,CHIP	100K	5%	1/10W
R57	1-216-097-91	RES,CHIP	100K	5%	1/10W
R58	1-216-097-91	RES,CHIP	100K	5%	1/10W
R59	1-216-097-91	RES,CHIP	100K	5%	1/10W
R60	1-216-097-91	RES,CHIP	100K	5%	1/10W
R61	1-216-097-91	RES,CHIP	100K	5%	1/10W
R62	1-216-025-91	RES,CHIP	100	5%	1/10W
R63	1-216-025-91	RES,CHIP	100	5%	1/10W
	<VARIABLE RESISTOR>				
RV1	1-241-767-21	RES, ADJ, CARBON 100K			
	<SWITCH>				
S1	1-553-563-00	SWITCH, ROTARY			(JME-LS200 SELECT SW)
S2	1-570-909-21	SWITCH, TACTIL (REFLOW TYPE)			(RESET)
	<CRYSTAL>				
X1	1-781-062-11	OSCILLATOR, CRYSTAL (18.432MHz)			

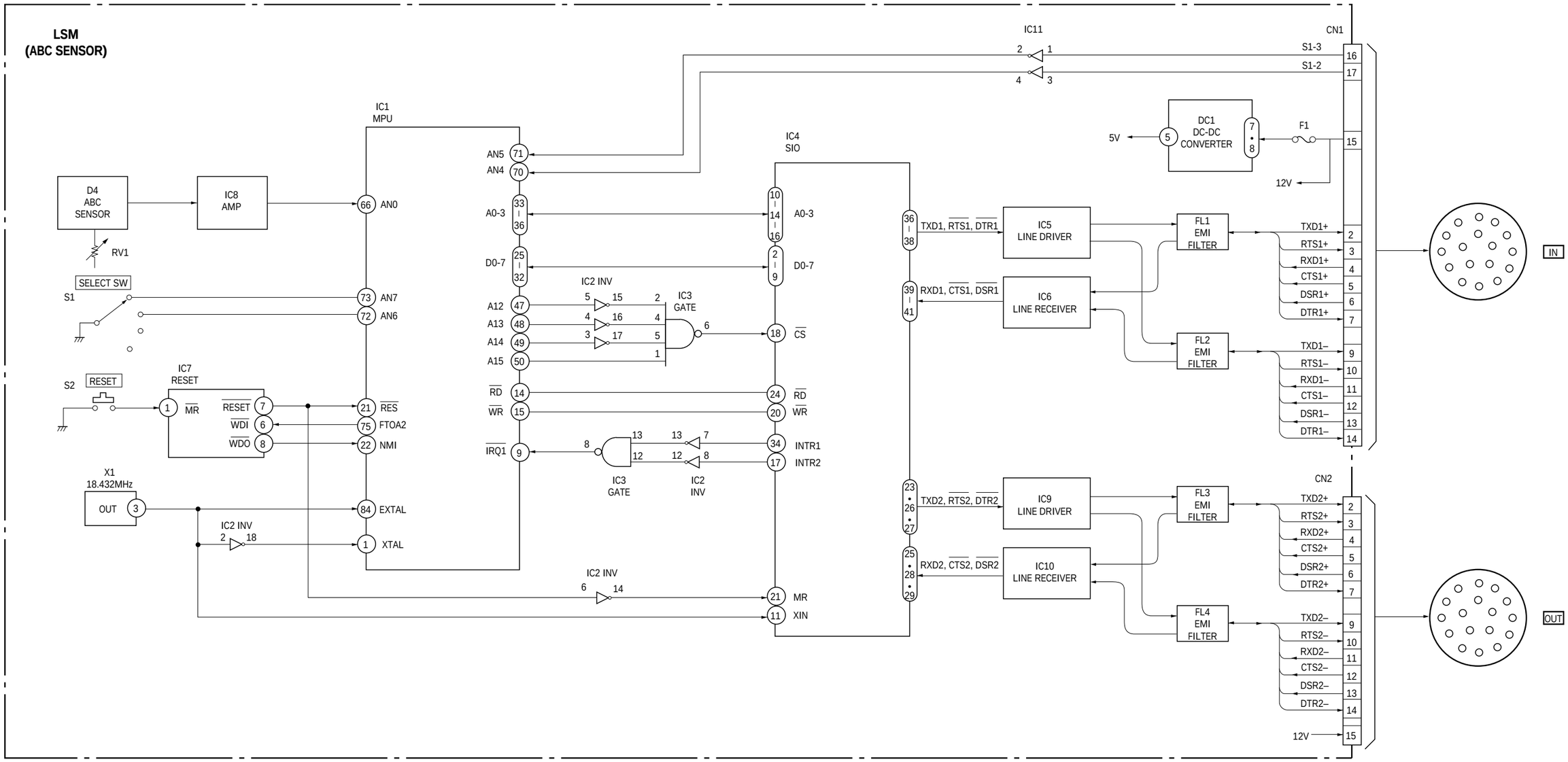
****

ACCESSORIES & PACKING MATERIALS

****

	3-864-752-01	GUIDE, OPERATION (JAPANESE)
	3-864-752-11	GUIDE, OPERATION (ENGLISH)
	3-864-752-21	GUIDE, OPERATION (GERMAN)
	3-864-752-31	GUIDE, OPERATION (FRENCH)
	3-864-752-41	GUIDE, OPERATION (SPANISH)
	3-864-752-51	GUIDE, OPERATION (ITALIAN)

SECTION 5
BLOCK DIAGRAM



SECTION 6
DIAGRAMS

6-1. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics.
- All electrolytics are in 50 V unless otherwise specified.
- All resistors are in ohms, 1/4 W in resistance, 1/10W in chip resistance.
  kΩ = 1000 Ω, MΩ = 1000k Ω
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : Panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Reference information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFRAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

The components identified ⚠ marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

- ケミタン，タンタルを除くコンデンサで耐圧50 V以下のものは，その耐圧を省略。単位はすべてµF（pはpF）
- ケミコン，タンタルのコンデンサで耐圧50Vは省略。
- 抵抗で指示のないものは1/4 W，チップ抵抗は1/10 Wです。
  単位は全てΩ。k Ω = 1000 Ω，M Ω = 1000 kΩ
- 印はヒューズ抵抗。
- 印は不燃性抵抗。
- △ 印は内蔵部品。
- 印はパネル表示および調整名称。
- 半固定抵抗および可変抵抗器の特性カーブ（B）は省略。

－部品特性省略表－

- 固定抵抗

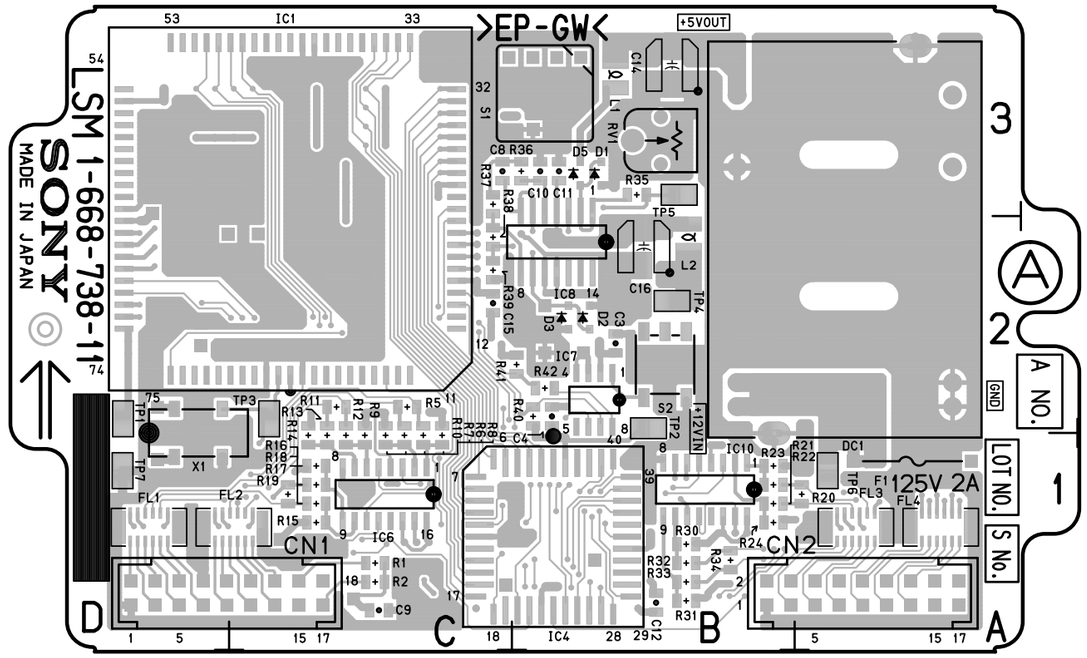
RN	：金属被膜
RC	：ソリッド
FPRD	：不燃性カーボン
FUSE	：不燃性ヒューズ
RS	：不燃性酸化金属被膜
RB	：不燃性セメント
RW	：不燃性巻線
※	：調整抵抗

- マイクロインダクタ
  LF−8B ：マイクロインダクタ

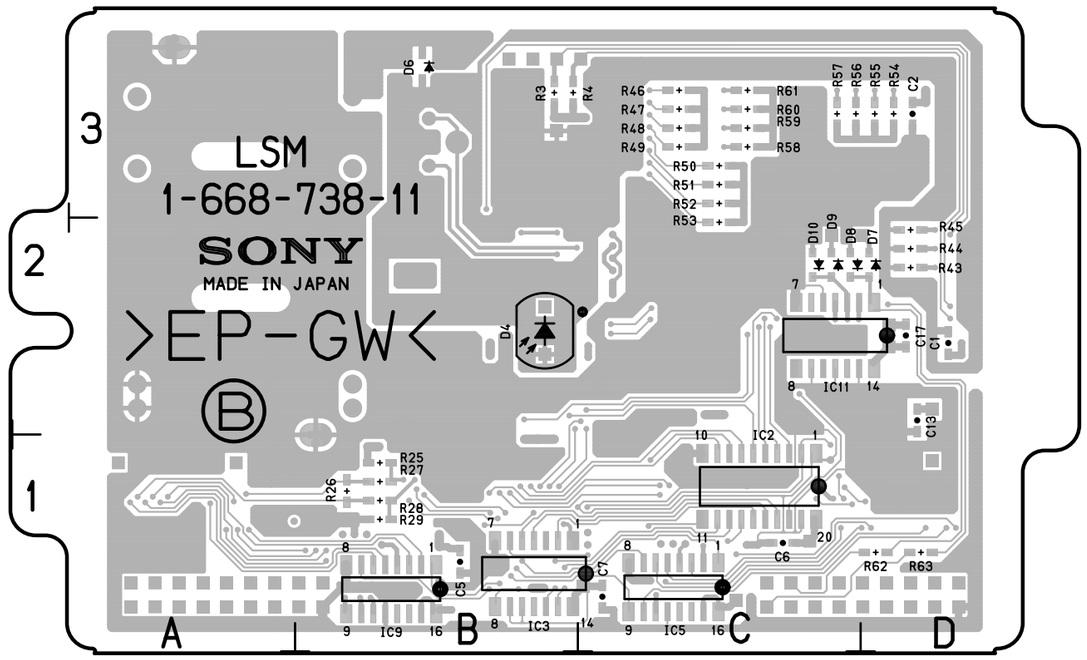
- コンデンサ

TA	：タンタル
PS	：スチロール
PP	：ポリプロピレン
PT	：マイラ
MPS	：メタライズドポリエステル
MPP	：メタライズドポリプロピレン
ALB	：バイポーラ
ALT	：高温用
ALR	：ハイリップル

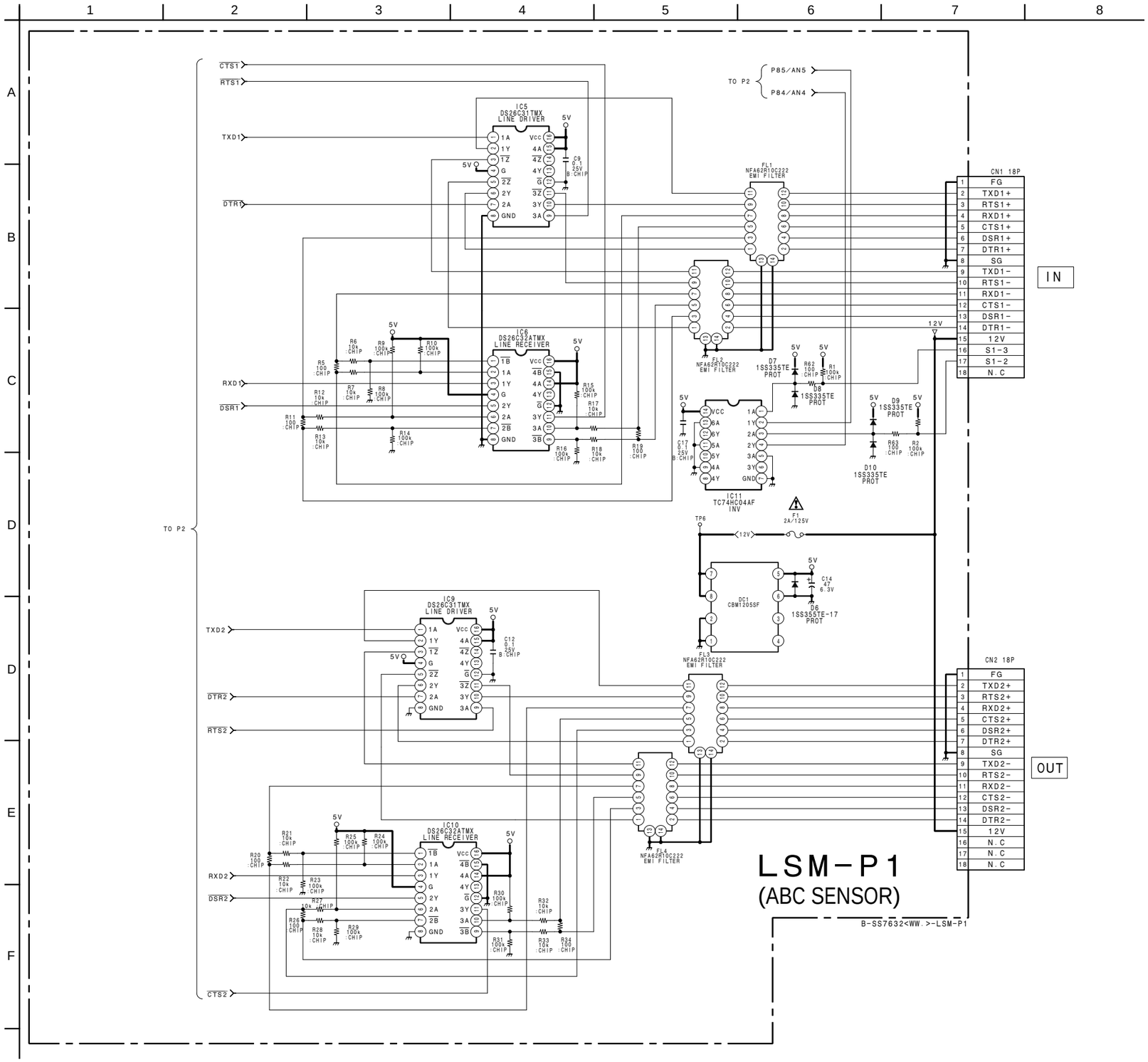
⚠印の部品は，安全性を維持するために，重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

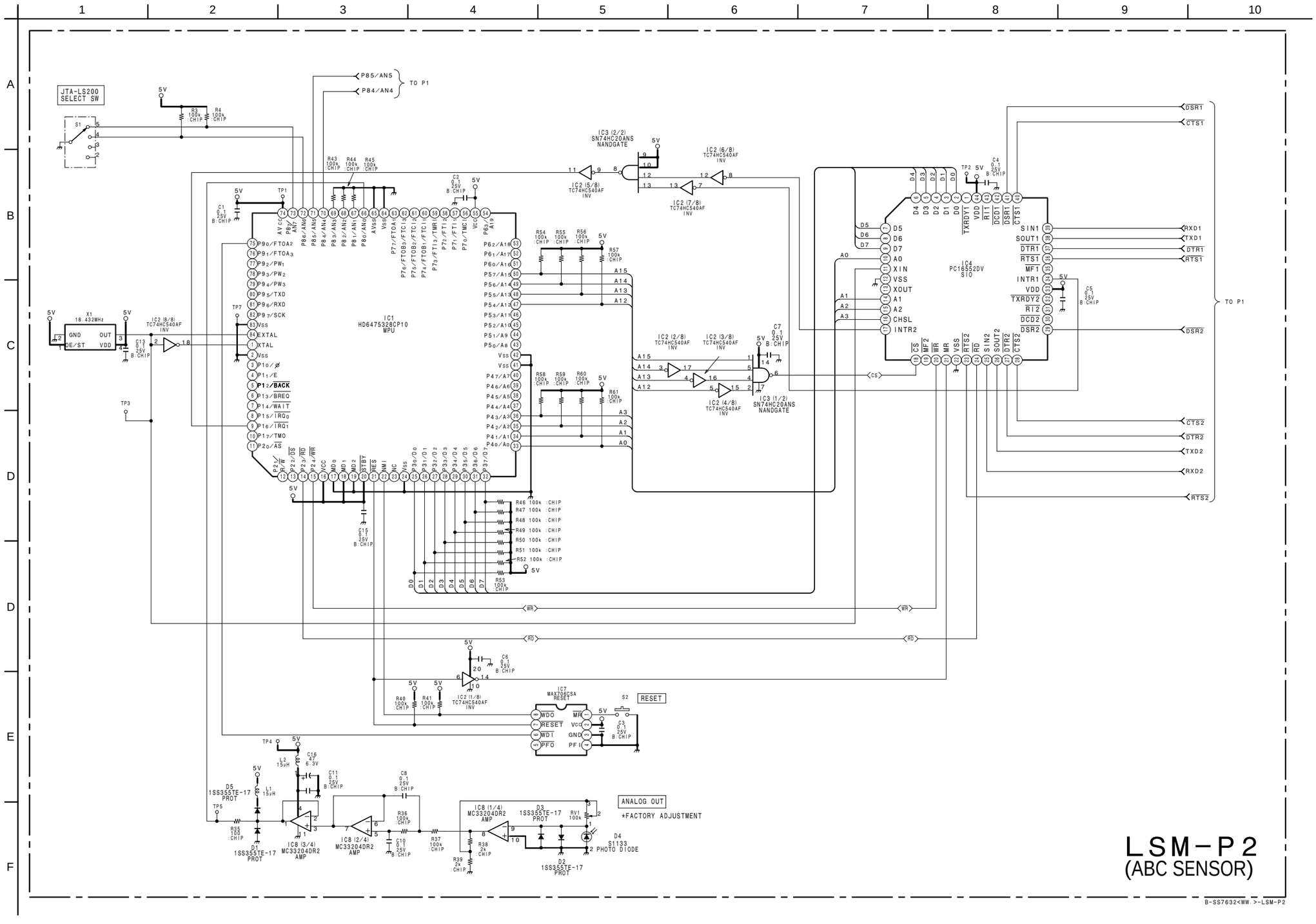


LSM – A SIDE –
SUFFIX: -11



LSM – B SIDE –
SUFFIX: -11


1
2
3
4
5
6
7
8
A
B
C
D
E
F
CTS1
RTS1
TXD1
DTR1
RXD1
DSR1
TO P2
P85/AN5
P84/AN4
IC5
DS26C31TMX
LINE DRIVER
IC6
DS26C32ATMX
LINE RECEIVER
FL1
NFA62R1DC222
EMI FILTER
FL2
NFA62R1DC222
EMI FILTER
CN1 18P
FG
TXD1+
RTS1+
RXD1+
CTS1+
DSR1+
DTR1+
SG
TXD1−
RTS1−
RXD1−
CTS1−
DSR1−
DTR1−
12V
S1-3
S1-2
N.C
IN
D7
1SS335TE
PROT
D8
1SS335TE
PROT
D9
1SS335TE
PROT
D10
1SS335TE
PROT
IC11
TC74HC04AF
INV
F1
2A/125V
TP6
12V
RC1
CBM1205SF
D6
1SS355TE-17
PROT
C14
47
6.3V
TXD2
DTR2
RTS2
RXD2
DSR2
CTS2
IC9
DS26C31TMX
LINE DRIVER
IC10
DS26C32ATMX
LINE RECEIVER
FL3
NFA62R1DC222
EMI FILTER
FL4
NFA62R1DC222
EMI FILTER
CN2 18P
FG
TXD2+
RTS2+
RXD2+
CTS2+
DSR2+
DTR2+
SG
TXD2−
RTS2−
RXD2−
CTS2−
DSR2−
DTR2−
12V
N.C
N.C
N.C
OUT
LSM−P1
(ABC SENSOR)
B-SS7632<WW.>-LSM-P1


JTA-LS200 SELECT SW
IC1 HD647532BCP10 MPU
IC4 PC16552DV SIO
IC7 MAX706CSA RESET
IC2 (8/8) TC74HC540AF INV
IC2 (7/8) TC74HC540AF INV
IC2 (6/8) TC74HC540AF INV
IC2 (5/8) TC74HC540AF INV
IC2 (4/8) TC74HC540AF INV
IC2 (3/8) TC74HC540AF INV
IC2 (2/8) TC74HC540AF INV
IC2 (1/8) TC74HC540AF INV
IC3 (2/2) SN74HC20ANS NANDGATE
IC3 (1/2) SN74HC20ANS NANDGATE
IC8 (1/4) MC33204DR2 AMP
IC8 (2/4) MC33204DR2 AMP
IC8 (3/4) MC33204DR2 AMP
P85/AN5
P84/AN4
TO P1
RESET
ANALOG OUT
*FACTORY ADJUSTMENT
D5 1SS355TE-17 PROT
D1 1SS355TE-17 PROT
D3 1SS355TE-17 PROT
D2 1SS355TE-17 PROT
D4 S1133 PHOTO DIODE
LSM-P2
(ABC SENSOR)
B-SS7632<WW.>-LSM-P2

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